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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,178	01/25/2002	John Christian Hermansen	20837-007401	8444
47069 75	590 10/19/2006		EXAMINER	
KONRAD RAYNES & VICTOR, LLP ATTN: IBM54 315 SOUTH BEVERLY DRIVE, SUITE 210 BEVERLY HILLS, CA 90212			HWANG, JOON H	
			ART UNIT	PAPER NUMBER
			2166	
			DATE MAILED: 10/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/055,178	HERMANSEN ET AL.				
Office Action Summary	Examiner	Art Unit				
•		2166				
The MAILING DATE of this communication app	Joon H. Hwang					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS cause the application to become ABANE	From the mailing date of this communication. OONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 Ai</u>	uaust 2006 ;					
,	action is non-final.					
, -						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)⊠ Claim(s) <u>32-94</u> is/are pending in the application.						
4) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>32-94</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	r election requirement	•				
,	r clection requirement.					
Application Papers	•					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached O	ffice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
 Copies of the certified copies of the prior application from the International Bureau 	-	ceived in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Sum					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ail Date mal Patent Application (PTO-152)				

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DETAILED ACTION

1. The pending claims are 32-94.

Response to Amendment

2. The declaration under 37 CFR 1.132 filed in 8/7/06 is insufficient to overcome the rejection of claims 32-94 based upon 35 USC § 102(a) as set forth in the last Office action because: there is evidence to the contrary – authorship is attributed to Language Analysis Systems, Inc, and not specific individuals. See MPEP 716.10.

Response to Arguments

3. Applicant's arguments filed in the amendment received on 8/7/06 have been fully considered but they are not persuasive.

The applicants' arguments are not persuasive since the declaration filed on 8/7/06 is insufficient as discussed above in paragraph 2.

Claim Rejections - 35 USC § 102

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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5. Claims 32 and 78 are rejected under 35 U.S.C. 102(b) as being anticipated by Project Plan (hereinafter PP) (Name Searching Research Project Phase 2, 6/14/1996, pages 1-18).

With respect to claim 32, PP teaches accessing a text input name entered as an input name by one or more of a user or a system (i.e., a query name, section 1 on pages 1-3). PP teaches determining multiple phonetic representations for a portion of the text input name, each of the multiple phonetic representations being for a different pronunciation of the text input name (i.e., multiple IPA representations for different pronunciations ([ʃei] and [ʃi]) of the query name (Shea), section 2.2 on page 3, section 2.2.1 on pages 3-5, and section 2.2.3.2.1 on pages 10-11). PP teaches comparing each of the multiple phonetic representations of the portion of the text input name to a phonetic representation of a portion of a text known name stored in a database (section 1 on pages 1-3 and section 2.3 on pages 11-13). PP teaches providing an indication of whether the text input name matches the text known name based on the comparing (section 1 on pages 1-3 and section 2.3 on pages 11-13).

The limitations of claim 78 are rejected in the analysis of claim 32 above, and the claim is rejected on that basis.

6. Claims 32-94 are rejected under 35 U.S.C. 102(a) as being anticipated by Final Report (hereinafter FR) (Name Searching Research Project Phase 2, May 31, 1997, pages 1-67).

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With respect to claim 32, FR teaches accessing a text input name entered as an input name by one or more of a user or a system (i.e., a query name, section 4.1.1 on page 9). FR teaches determining multiple phonetic representations for a portion of the text input name, each of the multiple phonetic representations being for a different pronunciation of the text input name (section 4.1.10 on page 15). FR teaches comparing each of the multiple phonetic representations of the portion of the text input name to a phonetic representation of a portion of a text known name stored in a database (section 4.2.5.1 on page 27). FR teaches providing an indication of whether the text input name matches the text known name based on the comparing (section 4.2.5.1 on page 27 and query results on page 34).

With respect to claim 33, FR teaches classifying the text input name as belonging to a particular culture (section 3.3.2 on pages 6-7 and section 3.3.3 on pages 7-8). FR teaches selecting a rule based on the classifying of the text input name (section 4.1.11.8 on pages 19-20). FR teaches applying the rule in determining the multiple phonetic representations for the portion of the text input name (section 4.1.11.8 on pages 19-20 and section 4.1.13 on pages 20-21).

With respect to claim 34, FR teaches classifying the text input name as belonging to a particular culture (section 3.3.2 on pages 6-7 and section 3.3.3 on pages 7-8). FR teaches selecting multiple rules based on the classifying of the text input name (section 4.1.11.8 on pages 19-20, section 4.1.12 on page 20, and section 4.1.13 on pages 20-21). FR teaches applying the multiple rules in determining the multiple phonetic

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representations for the portion of the text input name (section 4.1.11.8 on pages 19-20 and section 4.1.13 on pages 20-21).

With respect to claim 35, FR teaches comparing each of the multiple phonetic representations of the portion of the text input name to the phonetic representation of the portion of the text known name comprises determining articulatory similarity between at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 2 on pages 2-3 and section 4.2.1 on pages 21-24). FR teaches providing the indication comprises providing an indication of articulatory similarity between the text input name and the text known name, the indication of articulatory similarity being based on the determining of articulatory similarity (section 4.2.5.1 on page 27 and query results on page 34).

With respect to claim 36, FR teaches identifying an articulatory variation between one or more of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 2 on pages 2-3 and section 4.2.1 on pages 21-24). FR teaches classifying the articulatory variation as likely or unlikey (i.e., sonority hierarchy, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33). FR teaches determining articulatory similarity comprises attributing less significance to the articulatory variation, so as to indicate greater articulatory similarity, if the articulatory variation is likely than if the articulatory variation is unlikely (section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

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With respect to claim 37, FR teaches determining articulatory similarity based on a culture-specific rule (section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 38, FR teaches determining articulatory similarity between at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name comprises determining, for the at least one o the multiple phonetic representations of the portion of the text input name, how many phonetic features are in common between corresponding portions of the at least one phonetic representation of the portion of the text input name and the phonetic representation of the portion of the text known name (i.e., articulatory distance, section 4.2.1 on pages 21-24), and providing the indication of articulatory similarity comprises providing an indication that is based on the determining of how many phonetic features are in common (section 4.2.5.1 on page 27 and query results on page 34).

With respect to claim 39, FR teaches the at least one phonetic representation of the portion of the text input name comprises an International Phonetic Alphabet (IPA) representation of the text input name (section 4.1.1 on page 9), the phonetic representation of the portion of the text known name comprises an IPA representation of the portion of the text known name (section 4.1.1 on page 9), and determining how many phonetic features are in common between corresponding portions of the at least one phonetic representation of the portion of the text input name and the phonetic

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representation of the portion of the text known name comprises determining how many phonetic features are in common between corresponding symbols from the IPA representation of the portion of the text input name and the IPA representation of the portion of the text known name (section 4.1.1 on page 9 and section 4.2.1 on pages 21-24).

With respect to claim 40, FR teaches determining how many phonetic features are in common between corresponding symbols from the IPA representation of the portion of the text input name and the IPA representation of the portion of the text known name is based on a culture-specific rule (section 4.1.1 on page 9, section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 41, FR teaches determining multiple phonetic representation comprises determining multiple representations that are each based on an IPA (section 4.1.1 on page 9).

With respect to claim 42, FR teaches comparing each of the multiple phonetic representations of the portion of the input name to a second phonetic representation of the portion of the text known name (section 4.1.10 on page 15).

With respect to claim 43, FR teaches accessing the text input name comprises accessing a character representation of the text input name (section 4.1.8 on page 14 and section 4.1.10 on page 15).

With respect to claim 44, FR teaches determining multiple phonetic representations comprises using a rule relating character representations to sounds

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(section 4.1.1 on page 9, section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-

21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3

on pages 31-33).

With respect to claim 45, FR teaches the character representation of the text input name reflects a spelling from a specific culture and determining multiple phonetic representations comprises using a rule for determining phonetic representations, the rule being based on the specific culture (section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 46, FR teaches the character representation of the text input name reflects a spelling from a specific culture, the text input name belongs to another culture that is different from the specific culture, and determining multiple phonetic representations comprises using a rule for determining phonetic representations, the rule being based on the specific culture (section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 47, FR teaches the character representation of the text input name reflects a spelling from a specific culture, the text input name belongs to another culture that is different from the specific culture, and determining multiple phonetic representations comprises using a rule for determining phonetic representations, the rule being based on the other culture (section 4.1.11.8 on pages

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19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 48, FR teaches the character representation of the text input name reflects a spelling from a specific culture, the text input name belongs to the specific culture, and determining multiple phonetic representations comprises using a rule for determining phonetic representations, the rule being based on the specific culture (section 4.1.11.8 on pages 19-20, section 4.1.13 on pages 20-21, section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 49, FR teaches providing the indication comprises providing an indication that the text input name exactly matches the text known name (section 4.2.7.2.2 on pages 36-37 and section 5.2 on pages 51-52).

With respect to claim 50, FR teaches providing the indication comprises providing an indication that the text input name dose not exactly matches the text known name (section 4.2.7.2.2 on pages 36-37 and section 5.2 on pages 51-52).

With respect to claim 51, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, corresponding parts of the at least one phonetic representation of the portion of the text input name and the phonetic representation of the portion of the text known name (section 2 on pages 2-3, section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 52, FR teaches the corresponding parts include parts that correspond at a syntactic level (section 5.2 on pages 51-52).

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With respect to claim 53, FR teaches the corresponding parts include parts that correspond at a syllabic level (section 4.2.6 on pages 28-29 and section 4.2.6.2 on pages 30-31).

With respect to claim 54, FR teaches the parts that correspond at the syllabic level include a first part that relates to a left-most syllable of the portion of the text input name and a second part that relates to a left-most syllable of the portion of the text known name (section 4.2.6.3 on pages 31-33 and section 4.2.7 on pages 33-35).

With respect to claim 55, FR teaches the first part further relates to both an initial phonologic element and a final phonologic element of the left-most syllable of the portion of the text input name and the second part further relates to an initial phonologic element and a final phonologic element of the left-most syllable of the portion of the text known name (section 4.2.6.3 on pages 31-33, section 4.2.7 on pages 33-35, and section 5.2 on pages 51-52).

With respect to claim 56, FR teaches producing a result from the comparing of the first part and the second part and determining, based on the result, whether to continue comparing the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 4.2.6.3 on pages 31-33, section 4.2.7 on pages 33-35, and section 5.2 on pages 51-52).

With respect to claim 57, FR teaches corresponding parts include parts that correspond at a morphologic level (section 4.2.1 on page 21-24).

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With respect to claim 58, FR teaches corresponding parts include parts that correspond at a phonologic level (section 4.2.1 on page 21-24).

With respect to claim 59, FR teaches the parts that correspond at the phonologic level include a first part that relates to a final phoneme of the portion of the text input name and a second part that relates to a final phoneme of the portion of the text known name (section 4.2.1 on page 21-24 and section 4.2.4 on page 24-26).

With respect to claim 60, FR teaches comparing each of the multiple phonetic representations of the portion of the text input name to the phonetic representation of the portion of the text known name comprises comparing, for at least one of the multiple phonetic representations of the portion of the text input name, sonority level between at least part of the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33).

With respect to claim 61, FR teaches providing the indication of whether the text input name matches the text known name comprise providing a rank-ordered list of names, with rank-order indicating a likelihood of matching the text input name (section 4.2.5.1 on page 27 and query results on page 34).

With respect to claim 62, FR teaches providing the rank-ordered list of names comprises ranking names on the rank-ordered list based on a degree of articulatory similarity between names on the rank-ordered list and the text input name (section 4.2.5.1 on page 27 and query results on page 34).

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With respect to claim 63, FR teaches the rank-ordered list of name includes the text known name (section 4.2.5.1 on page 27 and query results on page 34).

With respect to claim 64, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, sonority level between at least part of the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 4.2.1 on pages 21-24, section 4.2.5.2 on pages 27-28, and section 4.2.6.3 on pages 31-33) and basing rank-order of the text known name on the comparing of sonority level (section 4.2.5.1 on page 27 and guery results on page 34).

With respect to claim 65, FR teaches determining whether the text known name includes a morphological element, and basing rank-order of the text known name on whether the text known name includes a morphological element (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 66, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, an initial sound of the at least one of the multiple phonetic representations of the portion of the text input name and an initial sound of the phonetic representation of the portion of the text known name, and basing rank-order of the text known name on the comparing of initial sounds (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 67, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, syllabic structure of the at

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least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name, and basing rank-order of the text known name on the comparing of syllabic structure (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, query results on page 34, and section 4.2.6.2 on pages 30-31).

With respect to claim 68, FR teaches comparing syllabic similarity (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, query results on page 34, and section 4.2.6.2 on pages 30-31).

With respect to claim 69, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, location of stress in the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name, and basing rank-order of the text known name on the comparing of location of stress (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, section 4.2.6 on pages 28-29, and query results on page 34).

With respect to claim 70, FR teaches comparing, for at least one of the multiple phonetic representations of the portion of the text input name, orthographic similarity between the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name, and basing rank-order of the text known name on the comparing of orthographic similarity (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, query results on page 34, and section 4.2.8.1.4 on pages 43-44).

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With respect to claim 71, FR teaches comparing each of the multiple phonetic representations of the portion of the text input name to the phonetic representation of the portion of the text known name comprises discounting, for at least one of the multiple phonetic representations of the portion of the text input name, an occurrence of a likely articulatory variation between the at least one of the multiple phonetic representations of the portion of the text input name and the phonetic representation of the portion of the text known name (section 4.1.11.7 on page 18).

With respect to claim 72, FR teaches identifying a particle in the text input, and attributing less significance to the particle, than to another part of the text input name, in providing the indication of whether the text input name matches the text known name (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 73, FR teaches attributes less significance to the particle comprises deciding not to determine a phonetic representation of the particle (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 74, FR teaches attributes less significance to the particle comprises deciding not to compare a phonetic representation of the particle to a phonetic representation of a part of the text known name (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

With respect to claim 75, FR teaches identifying a title, affix, or qualifier as particle (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, and query results on page 34).

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With respect to claim 76, FR teaches accessing a portion of a complete name (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, query results on page 34, and section 5.2 on page 51-52).

With respect to claim 77, FR teaches the entire input name (section 4.2.1 on pages 21-24, section 4.2.5.1 on page 27, query results on page 34, and section 5.2 on page 51-52).

Claims 78-94 are essentially the same as claims 32-42, 51, 53-54, and 60-62 except that it sets forth the claimed invention as a system rather than a method and rejected for the same reasons as applied hereinabove.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joon H. Hwang whose telephone number is 571-272-4036. The examiner can normally be reached on 9:30-6:00(M~F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joon Hwang

Patent Examiner

Technology Center 2100

10/13/06